WHAT IS CLAIMED IS:

1. A composition comprising a first oligomeric compound and a second oligomeric compound wherein:

at least a portion of the first oligomeric compound is capable of hybridizing with at least a portion of the second oligomeric compound;

at least a portion of the first oligomeric compound is complementary to and capable of hybridizing to a target nucleic acid; and

at least one of the first and the second oligomeric compounds comprises at least one modified nucleoside having enhanced or decreased affinity for the complementary nucleoside in the composition or between the first oligomeric compound and a nucleic acid target; or

one of the first and the second oligomeric compounds comprises at least one modified nucleoside having enhanced affinity for the complementary nucleoside in the composition or between the first oligomeric compound and a nucleic acid target and one of the first and the second oligomeric compounds comprises at least one modified nucleoside having decreased affinity for the complementary nucleoside in the composition or between the first oligomeric compound and a nucleic acid target.

- 2. The composition of claim 1 wherein the first oligomeric compound comprises at least one modified nucleoside having enhanced affinity for the complementary nucleoside in the composition or between the first oligomeric compound and a nucleic acid target and either the first oligomeric compound or second oligomeric compound comprises at least one modified nucleoside having a decreased affinity for the complementary nucleoside in the composition or between the first oligomeric compound and a nucleic acid target.
- 25 3. The composition of claim 1 wherein the first oligomeric compound comprises at least one modified nucleoside having a decreased affinity for the complementary nucleoside in the composition or between the first oligomeric compound and a nucleic acid target, and the second oligomeric compound comprises at least one modified nucleotide having an enhanced affinity for the complementary nucleotide in the first oligomeric compound compared to the affinity of an unmodified nucleotide.
 - 4. The composition of claim 1 wherein the second oligomeric compound comprises at least one modified nucleotide having an enhanced affinity for the complementary nucleotide in the first oligomeric compound compared to the affinity of an unmodified nucleotide, and

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wherein the second oligomeric compound also comprises at least one modified nucleotide having a decreased affinity for the complementary nucleotide in the first oligomeric compound compared to the affinity of an unmodified nucleotide.

- 5 5. The composition of claim 1 wherein the at least one modified nucleotide that comprises an enhanced affinity is a nucleotide comprising a nucleotide base modification.
 - 6. The composition of claim 5 wherein the nucleotide base modification comprises a pyrimidine nucleotide comprising a modification at the 2, 4, 5 or 6 position of the pyrimidine nucleotide.
 - 7. The composition of claim 6 wherein the pyrimidine nucleotide comprises a modification at the 2 or 5 position of the pyrimidine nucleotide.
- 15 8. The composition of claim 6 wherein the nucleotide base modification comprises a 2-thio U nucleotide substitution for U nucleotide or 2-thio C nucleotide substitution for a C nucleotide.
- 9. The composition of claim 6 wherein the nucleotide base modification comprises a 5-alkyl, 5-alkenyl, or 5-alkynyl U substitution for a U nucleotide or 5-alkyl, 5-alkenyl, or 5-alkynyl C substitution for a C nucleotide.
 - 10. The composition of claim 6 wherein the nucleotide base modification comprises a 5-methyl U, 5-methyl C, 5-propynyl U, or 5-propynyl C nucleotide.
 - 11. The composition of claim 5 wherein the nucleotide base modification comprises a pyrimidine nucleotide having a modification, wherein the pyrimidine nucleotide is incorporated as one ring of a multiple ring heterocycle.
- 30 12. The composition of claim 11 wherein the multiple ring heterocycle further comprises a phenoxazine moiety.
 - 13. The composition of claim 12 wherein the multiple ring heterocycle comprises the formula:

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wherein:

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R₁₁ is (CH₃)₂N-(CH₂)₂-O-; H₂N-(CH₂)₃-; Ph-CH₂-O-C(=O)-N(H)-(CH₂)₃-; H₂N-; fluorenyl-CH₂-O-C(=O)-N(H)-(CH₂)₃-; phthalimidyl-CH₂-O-C(=O)-N(H)-(CH₂)₃-; Ph-CH₂-O-5 C(=O)-N(H)-(CH₂)₂-O-; Ph-CH₂-O-C(=O)-N(H)-(CH₂)₃-O-; (CH₃)₂N-N(H)-(CH₂)₂-O-; fluorenyl-CH₂-O-C(=O)-N(H)-(CH₂)₂-O-; fluorenyl-CH₂-O-C(=O)-N(H)-(CH₂)₃-O-; H₂N-(CH₂)₂-O-CH₂-; N₃-(CH₂)₂-O-CH₂-; H₂N-(CH₂)₂-O-, or NH₂C(=NH)NH-.

- 14. The composition of claim 5 wherein the nucleotide base modification comprises a purine nucleotide comprising a modification at the 1, 2, 3, 6, 7 or 8 position of the purine nucleotide.
 - 15. The composition of claim 14 wherein the nucleotide base modification comprises a purine nucleotide comprising a modification at the 2, 6 or 7 positions of the purine nucleotide.

16. The composition of claim 14 wherein the nucleotide base modification comprises a 7-deaza-7-alkyl, 7-deaza-7-alkenyl, or 7-deaza-7-alkynyl A substitution for a A nucleotide or 7-deaza-7-alkyl, 7-deaza-7-alkenyl, or 7-deaza-7-alkynyl G substitution for a G nucleotide.

- 20 17. The composition of claim 14 wherein the nucleotide base modification comprises a 2,6-diamino purine substitution for an A nucleotide.
 - 18. The composition of claim 1 wherein the at least one modified nucleotide that comprises an enhanced affinity is a nucleotide comprising a nucleotide sugar modification.
 - 19. The composition of claim 18 wherein the nucleotide sugar modification comprise 2'-F, 2'-MOE, 2'-O-methyl, 2'-O-alkyl, 2'-O-alkynyl, 2'-S-alkyl, 2'-S-alkyl, 2'-S-alkynyl, 2'-amino, 2'-azido, or 2'-allyl.

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- 20. The composition of claim 1 wherein the at least one modified nucleotide that comprises an enhanced affinity is a nucleotide comprising a modified internucleotide linkage.
- 21. The composition of claim 20 wherein the modified internucleotide linkage comprises a stabilizing internucleotide linkage.
 - 22. The composition of claim 21 wherein the stabilizing internucleotide linkage comprises a 3'-deoxy-3'-aminophosphoramidate, 3'-deoxy-3'-methylene phosphonate, 3'-deoxy-3'-aminothiophosphoramidate, acetal, thioacetal, amide-3 and amide-4, MMI, hydrazine, or morpholino.
 - 23. The composition of claim 1 wherein the at least one modified nucleotide that comprises a decreased affinity is a nucleotide comprising a nucleotide base modification.
- 15 24. The composition of claim 23 wherein the nucleotide base modification comprises an inosine nucleotide or a purine ribofuranosyl nucleotide.
 - 25. The composition of claim 1 wherein the at least one modified nucleotide that comprises a decreased affinity is a nucleotide comprising a nucleotide sugar modification.
 - 26. The composition of claim 25 wherein the sugar modification comprises a 2'-endo sugar.
 - 27. The composition of claim 1 wherein the at least one modified nucleotide that comprises a decreased affinity is a nucleotide comprising at least one modified internucleotide linkage.
 - 28. The composition of claim 27 wherein the modified internucleotide linkage comprises a destabilizing internucleotide linkage.
- 29. The composition of claim 28 wherein the destabilizing internucleotide linkage comprises a phosphorothicate, phosphorodithicate, phosphoramidate, phosphorateinternucleotide linkage.
 - 30. The composition of claim 5 or claim 23 wherein the nucleotide base modification comprises a 2'-substituent group which is, independently, F, -O-CH₂CH₂-O-CH₃, -O-C₁-C₁₂

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alkyl, -O-CH₂-CH₂-CH₂-NH₂, -O-(CH₂)₂-O-N(R₁)₂, -O-CH₂C(=O)-N(R₁)₂, -O-(CH₂)₂-O-(CH₂)₂-N(R₁)₂, -O-CH₂-CH₂-CH₂-NHR₁, -O-CF₃, -N₃, -O-CH₂-CH=CH₂, -NHCOR₁, -NH₂, -NHR₁, -N(R₁)₂, -SH, -SR₁, -N(H)OH, -N(H)OR₁, -N(R₁)OH, -N(R₁)OR₁ or -O-CH₂-N(H)-C(=NR₁)(N(R₁)₂);

- wherein each R₁ is, independently, H, C₁-C₁₂ alkyl, a protecting group, or substituted or unsubstituted C₁-C₁₂ alkyl, C₂-C₁₂ alkenyl, or C₂-C₁₂ alkynyl, wherein the substituent groups are halogen, hydroxyl, amino, azido, cyano, haloalkyl, alkenyl, alkoxy, thioalkoxy, haloalkoxy, or aryl.
- 10 31. The composition of claim 30 wherein each of the 2'-substituent groups is, independently, -F, -O-CH₃, -O-CH₂CH₂-O-CH₃, -O-CH₂-CH=CH₂, -O-CF₃, N₃, NH₂, NHOH, -O-(CH₂)₂-O-N(R₁)₂, -O-CH₂C(O)-N(R₁)₂, -O-CH₂-CH₂-CH₂-NH₂, -O-(CH₂)₂-O-(CH₂)₂-N(R₁)₂ or -O-CH₂-N(H)-C(=NR₁)(N(R₁)₂);

wherein each R₁ is, independently, H, C₁-C₁₂ alkyl, a protecting group, or substituted or unsubstituted C₁-C₁₂ alkyl, C₂-C₁₂ alkenyl, or C₂-C₁₂ alkynyl, wherein the substituent groups are halogen, hydroxyl, amino, azido, cyano, haloalkyl, alkenyl, alkoxy, thioalkoxy, haloalkoxy, or aryl.

- 32. The composition of claim 31 wherein each of the 2'-substituent groups is, independently, -F, -O-CH₂CH₂-O-CH₃, -O-CH₂-CH=CH₂, -O-CF₃ or -O-CH₂-CH-CH₂-NH(R_i) where R_i is H or C₁-C₁₀ alkyl.
 - 33. The composition of claim 32 wherein each of the 2'-substituent groups is, independently, F, -O-CH₃, -O-CF₃, or -O-CH₂CH₂-O-CH₃.
 - 34. The composition of claim 5 or claim 23 wherein at least one modified nucleotide base is a locked nucleic acid (LNA).
- 35. The composition of claim 18 or claim 25 wherein the nucleotide sugar modification is, independently, C₁-C₂₀ alkyl, C₂-C₂₀ alkenyl, C₂-C₂₀ alkynyl, C₅-C₂₀ aryl, -O-alkyl, -O-alkenyl, -O-alkynyl, -O-alkylamino, -O-alkylamino, -O-alkylaminoalkyl, -O-alkyl imidazole, -OH, -SH, -S-alkyl, -S-alkenyl, -S-alkynyl, -N(H)-alkyl, -N(H)-alkenyl, -N(H)-alkynyl, -N(alkyl)₂, -O-aryl, -S-aryl, -NH-aryl, -O-aralkyl, -S-aralkyl, -N(H)-aralkyl, phthalimido (attached at N), halogen, amino, keto (-C(=O)-Ra), carboxyl (-C(=O)OH), nitro (-NO₂), nitroso (-N=O), cyano (-CN),

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trifluoromethyl (-CF₃), trifluoromethoxy (-O-CF₃), imidazole, azido (-N₃), hydrazino (-N(H)-NH₂), aminooxy (-O-NH₂), isocyanato (-N=C=O), sulfoxide (-S(=O)-R_a), sulfone (-S(=O)₂-R_a), disulfide (-S-S-R_a), silyl, heterocyclyl, carbocyclyl, an intercalator, a reporter group, a conjugate group, polyamine, polyamide, polyalkylene glycol, or a polyether of the formula (-O-alkyl)_{ma};

wherein each R_a is, independently, hydrogen, a protecting group, or substituted or unsubstituted alkyl, alkenyl, or alkynyl, wherein the substituent groups are haloalkyl, alkenyl, alkoxy, thioalkoxy, haloalkoxy, aryl, halogen, hydroxyl, amino, azido, carboxy, cyano, nitro, mercapto, a sulfide group, a sulfonyl group, or a sulfoxide group;

or each sugar substituent group has one of formula Ia or IIa:

$$-R_{\overline{b}} \underbrace{\left(CH_{2}\right)_{ma}}_{mc} \underbrace{\left(CH_{2}\right)_{md}}_{mc} -R_{\overline{d}} -R_{\overline{d}} -R_{\overline{e}} \underbrace{\left(R_{f} \left(R_{h} \right)_{me}}_{R_{i}} -R_{h} \right)_{me}}_{R_{i}}$$

10 wherein:

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R_b is O, S or NH;

 R_d is a single bond, O, S or C(=O);

 R_e is C_1 - C_{10} alkyl, $N(R_k)(R_m)$, $N(R_k)(R_n)$, $N=C(R_p)(R_q)$, $N=C(R_p)(R_r)$ or has formula 15 IIIa;

$$\begin{array}{cccc} N - R_t \\ - N - C \\ R_s & N - R_u \\ R_v \end{array}$$

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R_p and R_q are each, independently, hydrogen or C₁-C₁₀ alkyl;

 R_r is $-R_x-R_y$;

each R_s, R_t, R_u and R_v is, independently, hydrogen, C(O)R_w, substituted or unsubstituted C₁-C₁₀ alkyl, substituted or unsubstituted C₂-C₁₀ alkenyl, substituted or unsubstituted C₂-C₁₀ alkynyl, alkylsulfonyl, arylsulfonyl, a chemical functional group, or a conjugate group, wherein the substituent groups are hydroxyl, amino, alkoxy, carboxy, benzyl, phenyl, nitro, thiol, thioalkoxy, halogen, alkyl, aryl, alkenyl, or alkynyl;

or, optionally, R_u and R_v , together form a phthalimido moiety with the nitrogen atom to which they are attached;

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each R_w is, independently, substituted or unsubstituted C₁-C₁₀ alkyl, trifluoromethyl, cyanoethyloxy, methoxy, ethoxy, t-butoxy, allyloxy, 9-fluorenylmethoxy, 2-(trimethylsilyl)-ethoxy, 2,2,2-trichloroethoxy, benzyloxy, butyryl, iso-butyryl, phenyl, or aryl;

R_x is a bond or a linking moiety;

R_y is a chemical functional group, a conjugate group or a solid support medium;

 R_k is hydrogen, a nitrogen protecting group or $-R_x-R_y$;

each R_m and R_n is, independently, H, a nitrogen protecting group, substituted or unsubstituted C₁-C₁₀ alkyl, substituted or unsubstituted C₂-C₁₀ alkenyl, substituted or unsubstituted C₂-C₁₀ alkynyl, wherein the substituent groups are hydroxyl, amino, alkoxy, carboxy, benzyl, phenyl, nitro, thiol, thioalkoxy, halogen, alkyl, aryl, alkenyl, alkynyl, NH3+, N(R_u)(R_v), guanidine, or acyl where the acyl is an acid amide or an ester;

or R_m and R_n, together, are a nitrogen protecting group, are joined in a ring structure that optionally includes an additional heteroatom selected from N and O, or are a chemical functional group;

15 R_i is OR_z , SR_z , or $N(R_z)_2$;

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each R_z is, independently, H, C_1 - C_8 alkyl, C_1 - C_8 haloalkyl, $C(=NH)N(H)R_u$, $C(=O)N(H)R_u$ or $OC(=O)N(H)R_u$;

 R_f , R_g and R_h comprise a ring system having from about 4 to about 7 carbon atoms or having from about 3 to about 6 carbon atoms and 1 or 2 heteroatoms wherein the heteroatoms are oxygen, nitrogen, or sulfur and wherein the ring system is aliphatic, unsaturated aliphatic, aromatic, or saturated or unsaturated heterocyclic;

 R_j is alkyl or haloalkyl having 1 to about 10 carbon atoms, alkenyl having 2 to about 10 carbon atoms, alkynyl having 2 to about 10 carbon atoms, aryl having 6 to about 14 carbon atoms, $N(R_k)(R_m)$ OR_k , halo, SR_k or CN;

25 ma is 1 to about 10; each mb is, independently, 0 or 1;

mc is 0 or an integer from 1 to 10;

md is an integer from 1 to 10;

me is from 0, 1 or 2; and

provided that when mc is 0, md is greater than 1.

36. The composition of claim 1 wherein each of the first and second oligomeric compounds comprises from about 8 to about 80 nucleobases.

- 37. The composition of claim 1 wherein each of the first and second oligomeric compounds comprises from about 10 to about 50 nucleobases.
- 38. The composition of claim 1 wherein each of the first and second oligomeric compounds comprises from about 12 to about 30 nucleobases.
 - 39. The composition of claim 1 wherein each of the first and second oligomeric compounds comprises from about 12 to about 24 nucleobases.
- 10 40. The composition of claim 1 wherein each of the first and second oligomeric compounds comprises from about 19 to about 23 nucleobases.
- 41. A method of inhibiting the expression of a nucleic acid molecule encoding a target protein in a cell, tissue, or animal comprising contacting the cell, tissue, or animal with the composition of claim 1, wherein the first oligomeric compound specifically hybridizes with the nucleic acid molecule encoding the target protein and inhibits the expression of the target protein.
 - 42. A method of screening for a modulator of a target, the method comprising:
- contacting a target segment of a nucleic acid molecule encoding the target with one or more modulator candidates selected from the compositions of claim 1; and

identifying one or more modulators of the target expression which modulate the expression of the target.

- 25 43. The method of claim 42 wherein the modulator of the target expression comprises an oligonucleotide, an antisense oligonucleotide, a DNA oligonucleotide, an RNA oligonucleotide having at least a portion of the RNA oligonucleotide capable of hybridizing with RNA to form an oligonucleotide-RNA duplex, or a chimeric oligonucleotide.
- 30 44. A kit or assay device comprising the composition of claim 1.
 - 45. A method of treating an animal having a disease or condition associated with a target protein comprising administering to the animal a therapeutically or prophylactically effective amount of the composition of claim 1 so that expression of the target is inhibited.

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46. A method of reducing the expression of a gene in a biological system expressing the gene comprising:

providing a composition of claim 1; and

- contacting the biological system with the composition under conditions effective to reduce the expression of the gene, wherein the composition comprises at least one of the first and second oligomeric compounds is an RNA oligomer.
 - 47. The composition of claim 1 wherein the first and second oligomeric compounds are a complementary pair of siRNA oligonucleotides.
- 48. The composition of claim 1 wherein the first oligomeric compound is an antisense oligonucleotide.
- 49. The composition of claim 1 wherein the second oligomeric compound is a sense 15 oligonucleotide.
 - 50. A composition comprising the composition of claim 1 and at least one protein comprising at least a portion of an RNA-induced silencing complex (RISC).

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